## PATENT COOPERATION TREATY

TO: JANE MASSEY LICATA  PCT	From the NTERNATIONAL SEARCHING AUT	HORITY					
Applicant's or agent's file reference    Page   Por FURTHER ACTION	To: JANE MASSEY LICATA LICATA & TYRRELL P.C.		PCT				
Applicant's or agent's file reference    Property   Priority   Pri							
Applicant's or agent's file reference  DRE-0156  International application No.  International filing date (day/month/year)  Priority date (day/month/year)  Priority date (day/month/year)  Priority date (day/month/year)  O3 July 2003 (03.07.2003)  International Patent Classification (IPC) or both national classification and IPC  IPC(T): COIB 31/02 and US Cl.: 423/445R  Applicant  DREXEL UNIVERSITY  1. This opinion contains indications relating to the following items:  Box No. I Basis of the opinion  Box No. II Priority  Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. IV Lack of unity of invention  Box No. VI Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Box No. VI Certain documents cited  Box No. VII Certain defects in the international application  2. FURTHER ACTION  If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the laternational Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.  If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further details, see notes to Form PCT/ISA/220.  Name and mailing address of the ISA/ US  Mall Sup PCT, Antic ISA/US  Altarandria, Virginia 22313-1459  Telephone No. 571-272-1700				(PCT Rule 43bis.1)			
DRE-0156			(day/month/year)	0 9 MAY 2005			
International application No.    International filing date (day/month/year)   Priority date (day/month/year)	Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below				
December		International filing date (	(day/month/year) Priority date (day/month/year)				
International Patent Classification (IPC) or both national classification and IPC  IPC(7): C01B 31/02 and US C1.: 423/445R  Applicant  DREXEL UNIVERSITY  1. This opinion contains indications relating to the following items:    Box No. 1	International application No.						
PPEC(7): CO1B 31/02 and US C1: 423/445R	PCT/US04/21382	02 July 2004 (02.07.2004) or both national classification					
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P.O. Box 1450 Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230  Telephone No. 571-272-1700	Mail Stop PCT, Attn: ISA/US		Stuart Hendric	ekson Julia			
Facsimile No. (703) 305-3230	P.O. Box 1450	450	Telephone No.	571-272-1700			
	Facsimile No. (703) 305-3230						

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/21382

Box No. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
in written format				
in computer readable form				
c. time of filing/furnishing				
contained in international application as filed.				
filed together with the international application in computer readable form.				
furnished subsequently to this Authority for the purposes of search.				
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:				

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/21382

		<u>                                     </u>				
Box No. V Reasoned statement under Rule 43 applicability; citations and explana	3 bis.1(a)(i) with regardations supporting such s	to novelty, inventive ste	p or industrial			
1. Statement		•				
Novelty (N)	Claims 2,5		YES			
Troversy (1.)						
Inventive step (IS)						
	Claims $1,3,4,6,7$					
Industrial applicability (IA)	Claims 1-7		YES			
madstrat approaching (11-1)	Claims NONE		NO			
2. Citations and explanations:						
Claims 1,3,4,6,7 lack novelty under PCT Article 33(2). The reference teaches in the flowchart and example difference is seen in the carbon product or the stated it	heating Ti carbide with half	riksson et al. ogen at 600 degrees C to mal	ke carbon. No			
Claims 2 and 5 meet the criteria set out in PCT Artic material or high temperature recited.	ele 33(2)-(3), because the pr	rior art does not teach or fair	ly suggest the starting			
Claims 1-7 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.						
It is also noted that applicants admit in the specification that carbon derived from carbides is well known in the art.						

Form PCT/ISA/237 (Box No. V) (January 2004)